47E103co

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OIPE

ENTERED

RAW SEQUENCE LISTING   DATE: 03/26/2002 P.5
PATENT APPLICATION: US/09/887,272A   TIME: 14:20:44

Input Set : **D:\Sequence.txt**
Output Set: **N:\CRF3\03262002\I887272A.raw**

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 7        Zhu, Tong
 8        Whitham, Steve
 9        Goff, Steve
10        Glazebrook, Jane
11        Chen, Wenquiong
12        Katagiri, Fumiaki
13        Xie, Zhiyi
14        Tao, Yi
15        Zou, Guangzhou
16        Cooper, Bret
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19        PATHOGENS
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56 tcagaaaagg ccatcgaaca agatacagta tcatcaattg gggtaaagaa acctccagtg     180
57 gactctccag ccactactaa tgctgctagc ggtcgacttg tttatgtccg gagaagagtg     240
58 gaggttgaca catccaaagc cgctgctagc actactaatc gaatccgcc  tcctactaag     300
59 gcaccacccc agataccttc atcacccgca caggcacagg cacaggaacc aaccccctacc    360
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PATENT APPLICATION: US/09/887,272A   TIME: 14:20:44

Input Set : **D:\Sequence.txt**
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62 tcactttcct ccgccgagct tagcaagcat gctgttgact tggaaaagag gtctattcag       540
63 ttctctctcg aggaagcgag agagatgcag cgcgtagcag ctttaaacgt gttaggaagg       600
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74 aacaaacgat ccaagctatg gagcaatgga acaagtgtct ctaagtttag tctacttgaa       180
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78 attggtcaat gggagtataa gtcaaggtat gaaggtgatt tggtggcgaa atgttacttt       420
79 gcaaaacata aacttgtgtg ggaagtgttg gaacaaggtc ttaagagcaa gattgagatt       480
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87 agctcagtga tggatgctcg tgcaatcgaa ggagttggtg gttccattga ttcgaggaat       960
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89 ttccttacgt ttttgtcaga tcaagcttgt gaaaacaacc aagagtttga ggaaatgaaa      1080
90 cagttactgc taagtgacaa cactcaaacc gatccatctg atgagaagtc tgtcatgtca      1140
91 aaggtgaatt ctttctgcaa cctcttgcaa tctgctgcaa actcacagct caatatcgaa      1200
92 actgctgata ccgaaagagt tgttggggtc gataacaata gacacatgcc cgaaggaggc      1260
93 aaaagagttg ttgaccctgc ttcaagcagc aagccactac aagggatgtc aaggaaagac      1320
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105 gtttccgaag gattaggtaa agatgcgttg atctcatggt tcagaggaga attcgctgcg       180
106 gcaaacgcga taatcgacgc gatgtgctcg catctaagga tagctgaaga agcggtatct       240
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110 ctgaaagagg tggtggcgac ggaggaagag gaagtgaaga agagtgtttt taacggcgag       480
111 aaagtaacgg agaatgacgt aaacggagat gtagaagacg ttgaagatga ttcaccaact       540
112 agtgatatca ctgattcagg ttctcatcag gatgttcacc aaactgttgt tgcggatact       600
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RAW SEQUENCE LISTING   DATE: 03/26/2002
PATENT APPLICATION: US/09/887,272A   TIME: 14:20:44

Input Set : **D:\Sequence.txt**
Output Set: **N:\CRF3\03262002\I887272A.raw**

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115 ggactaaagc tgtatgaaga gttacttaaa gaagatgaga tatctaaatt gttagacttt    780
116 gtggcagaac tacgagaagc tggcataaac gggaagcttg caggtgagag ctttatactg    840
117 ttcaacaaac agattaaagg gaacaagaga gagctgattc agcttggtgt ccccatcttt    900
118 ggtcatgtca aggcggatga aaactctaac gacaccaaca actctgttaa catcgagcca    960
119 attccaccac ttcttgagag tgtcattgat cactttgtca catggagact catcccagaa   1020
120 tacaagagac ctaacggctg tgtcatcaac ttctttgaag agggtgaata ctcacagcct   1080
121 ttcctcaaac cacctcactt agaacaacca atctccactc ttgtcctctc tgaatcaaca   1140
122 atggcctatg gacgcattct ctcaagtgac aacgaaggca acttcagagg acctttgaca   1200
123 ctctctctca aacaaggatc tttgttggtg atgagaggga acagtgcaga catggcaaga   1260
124 catgtaatgt gtccatcaca aaacaaaaga gtaagcatca cattctttcg tattcgacct   1320
125 gacacatatc ataaccattc acaacccaac agtcctcgca acgacggtgt catgacaatg   1380
126 tggcaaccct accaaatgac accaactcca ttcctcaatg gttatgatca ttcaattgac   1440
127 atgatgccaa aacttggagt cctacgtcct ccaatggtca tgatggcacc accaccggtt   1500
128 caaccaatga tattaccaag tcccaatgtg atgggaaccg gtggtggtac cggtgttttc   1560
129 ttaccatggg cctctgttaa tagctcaaga aaacatgtga agcatttgcc tccacgcgcg   1620
130 cagaagaagc gattacttcc gcttcctcct gctgcttctt cttctccagc tggaggatcc   1680
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141 aaagtaagga gagctttaga aggaatgaga ggaataagag atgtaaccat cgagccaaat    180
142 gctcagaaag tgacagtggt tgggtacgtt gaaccaaaca aagtggtggc tcgtatcatt    240
143 caccgaaccg gtaaaagagc agagctatat cctttcgttc cttacgacgt tgtggctcat    300
144 ccttacgcgt ctggtgttta cgataacaga gccccgactg ggtacgttag gaacaccgag    360
145 tatgatccac atgtgtcacg tctcgcacgt gctagctcca ctgaggttcg ttatactacg    420
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156 gatgcttcct tgaggagatt tctagatgct cgtaattggg atgtggaaaa agccaagaaa    180
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164 gacccacgta cagctgaaaa ggtgaaattt gtgtacccaa aagacaaagc aagtgatgaa    660
165 ctgatgacga cacattttga cgttgagaat ctccccaagg aattcggagg tgaagcaaca    720
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RAW SEQUENCE LISTING   DATE: 03/26/2002
PATENT APPLICATION: US/09/887,272A   TIME: 14:20:44

Input Set : D:\Sequence.txt
Output Set: N:\CRF3\03262002\I887272A.raw

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178 atgagatccg tttgccgttc ttggcgtagc ttactctccg actcttcttt tatccaagaa   180
179 cggcggagat gcggcaaaac agagcttctc ctctgcctcg ttcaaccgct aacgccgcca   240
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RAW SEQUENCE LISTING   DATE: 03/26/2002
PATENT APPLICATION: US/09/887,272A   TIME: 14:20:44

Input Set : **D:\Sequence.txt**
Output Set: **N:\CRF3\03262002\I887272A.raw**

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              PATENT APPLICATION:  US/09/887,272A    TIME: 14:20:45

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              Output Set: N:\CRF3\03262002\I887272A.raw

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L:9299 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (335) SEQUENCE:
L:9629 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (349) SEQUENCE:
L:9881 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (361) SEQUENCE:
L:10052 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (368) SEQUENCE:
L:10491 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (379) SEQUENCE:
L:10828 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (396) SEQUENCE:
L:10911 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (400) SEQUENCE:
L:11686 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (430) SEQUENCE:
L:11924 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (442) SEQUENCE:
L:11970 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (445) SEQUENCE:
L:12200 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (455) SEQUENCE:
L:12205 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (456) SEQUENCE:
L:12257 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (459) SEQUENCE:
L:12410 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (466) SEQUENCE:
L:12477 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (469) SEQUENCE:
L:12666 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (477) SEQUENCE:
L:12671 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (478) SEQUENCE:
L:13966 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (511) SEQUENCE:
L:14007 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (514) SEQUENCE:
L:14136 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (519) SEQUENCE:
L:14266 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (524) SEQUENCE:
L:14363 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (527) SEQUENCE:
L:14407 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (529) SEQUENCE:
L:14510 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (534) SEQUENCE:
L:14595 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (538) SEQUENCE:
L:14852 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (547) SEQUENCE:
```

VERIFICATION SUMMARY DATE: 03/26/2002
PATENT APPLICATION: **US/09/887,272A** TIME: 14:20:45

Input Set : **D:\Sequence.txt**
Output Set: **N:\CRF3\03262002\I887272A.raw**

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L:15097 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (555) SEQUENCE:
L:15160 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (558) SEQUENCE:
L:30567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1955
L:30568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1955
L:30570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1955
L:30596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1957
L:30623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1959
L:30638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1960
L:30656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1961
L:30696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1964
L:30718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1965
L:33868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2003
L:33892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2004
L:33917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2005
L:33942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2006
L:33946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2006
L:33951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2006
L:33952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2006
L:33954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2006
L:33956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2006
L:33957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2006
L:33958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2006
L:33983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2007
L:33984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2007
L:34007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2008
L:34047 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2010
L:34049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2010
L:34050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2010
L:34109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2013
L:34122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2014
L:34126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2014
L:34131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2014
L:34132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2014
L:34134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2014
L:34136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2014
L:34137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2014
L:34138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2014
L:34163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2015
L:34164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2015
L:34187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2016
L:34227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2018
L:34229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2018
L:34230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2018
L:34253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2019
L:34277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2020
L:34278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2020
L:34279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2020
L:34305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2021
L:34306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2021
```

VERIFICATION SUMMARY   DATE: 03/26/2002
PATENT APPLICATION: **US/09/887,272A**   TIME: 14:20:45

Input Set : **D:\Sequence.txt**
Output Set: **N:\CRF3\03262002\I887272A.raw**

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L:34319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2022
L:34346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2023
L:34374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2024
```